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Mobile service agents enabling "intelligence on demand" in telecommunications

Krause, S. Magedanz, T.

Tech. Univ. Berlin, Germany;

This paper appears in: Global Telecommunications Conference, 1996. GLOBE '96. 'Communications: The Key to Global Prosperity

Meeting Date: 11/18/1996 - 11/22/1996

Publication Date: 18-22 Nov. 1996

Location: London UK

On page(s): 78 - 84 vol.1

Volume: 1

Reference Cited: 14

Number of Pages: 3 vol. (xvi+xxxiii+xvii+2169)

Inspec Accession Number: 5677863

Abstract:

Today many countries are aiming for the establishment of national information infrastructures in order to satisfy the emerging needs of the upcoming information society. This infrastructure should provide the foundation of an "electronic marketplace" where information services and telecommunication services will be offered by service providers to arbitrary customers. The rapid and customized provision of services, which we call "intelligence on demand" represents an important prerequisite for the realization of a dynamic marketplace. In this context the concept of "mobile service agents" offers a new paradigm for the rapid and customized provision of services in distributed processing environments. We illustrate the differences between telecommunication services based on the traditional, i.e. RPC-based client/server paradigm, and service implementations based on mobile service agents. We analyze architectural principles and requirements of a distributed agent environment for mobile service agents. To show the benefits of mobile agent technology and its application for the realization of mobile service agents, the paper addresses the impact of the mobile service agent concept on existing and upcoming telecommunication architectures such as IN, TMN and TINA.

Index Terms:

[client-server systems](#) [information networks](#) [information services](#) [intelligent networks](#) [systems](#) [remote procedure calls](#) [software agents](#) [telecommunication computing](#)

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1 A role and rule-based multi-agent organization for HWME*Hailing Wang; Ruwei Dai;*

Control and Automation, 2003. ICCA. Final Program and Book of Abstracts. TI Fourth International Conference on , 10-12 June 2003

Pages:80 - 81

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2 The Internet, intranets, and the AI renaissance*O'Leary, D.E.;*

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3 Evolving fuzzy bidding strategies in competitive electricity markets*Walter, I.; Gomide, F.;*

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